

## AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1. (currently amended) A Dynamic dynamic separator consisting of the comprising:  
a movable upper trough with the having a sieve and the;  
a movable lower [[one]] trough hinged between each and other, then, with the upper  
trough;  
a drive for moving said upper trough and said lower trough[[,]]; and  
units for loading material minerals into said upper trough, for[[,]] water supplying water  
beneath said sieve and for discharging processed products of the processing away  
from said separator[[,]]; characterized in that there is further included flexible membrane and supports being  
different due to the fact the  
crankshafts, hingedly engaging said upper trough and said lower trough and  
synchronously downwardly moving said upper troughs trough together with said  
sieve while said lower trough moves upwardly, wherein a rotary movement of  
said upper and lower troughs is achieved so that vertical pulsation of water  
beneath said sieve is achieved; are hinged between each other via crankshafts,  
hinged on the supports, as for and  
a flexible membrane, it is made in the form of [[the]] an endless stripe strip, said strip  
having opposite one edge and another edge, said [[the]] one edges edge of which  
are attached to the troughs said upper trough and said another edge attached to  
said lower trough.

2. (new) A dynamic separator, comprising:
  - an upper trough having a sieve, closed from below by a continuous flexible membrane, and defining two sides, said upper trough for containing water and minerals to be processed;
  - a lower trough defining two sides;
  - one and another crankshafts, each defining first and second ends, each crankshaft hinged at its said first end to a corresponding side of said upper trough, and each crankshaft hinged at its said second end to a corresponding side of said lower trough;
  - at least two supports, each of said crankshafts hingedly carried on a corresponding one of said supports;
  - a driving gear, for pivotally actuating each of said crankshafts relative to said supports;
  - a device for loading minerals into said upper trough;
  - a device for water delivery beneath said sieve; and
  - a device for unloading processed products away from said separator, wherein said crankshafts synchronously downwardly move said upper trough together with said sieve while said lower trough moves upwardly in a rotary movement of said upper troughs and said lower troughs, so that vertical pulsation of water beneath said sieve is achieved.
3. (new) The dynamic separator according to Claim 2, wherein said flexible membrane is made from an endless strip, said strip defining opposite one edge portion and another edge portion, said one edge portion being attached to said upper trough sides and said another edge portion attached to said lower trough sides.